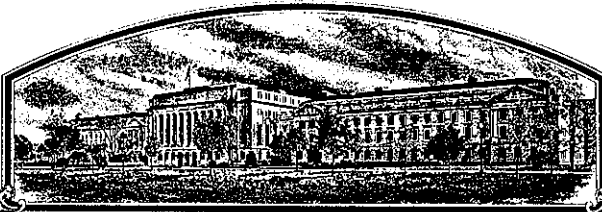


No.

8700053



THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

Western Plant Breeders, Inc.

Whereas, THERE HAS BEEN PRESENTED TO THE

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED NOVEL VARIETY OF SEXUALLY REPRODUCED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF *eighteen* YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, IMPORTING IT, OR EXPORTING IT, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT. THE UNITED STATES SEED OF THIS VARIETY (1) SHALL BE SOLD BY VARIETY NAME ONLY AS CERTIFIED SEED AND (2) SHALL CONFORM TO THE NUMBER OF GENERATIONS SPECIFIED BY THE OWNER OF THE RIGHTS. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

BARLEY

'Fiesta'



In Testimony Whereof, I have hereunto set my hand and caused the seal of the Plant Variety Protection Office to be affixed at the City of Washington, D. C. this *31st* day of December in the year of our Lord one thousand nine hundred and ninety.

Attest:

Kenneth A. Evans
Commissioner
Plant Variety Protection Office
Agricultural Marketing Service

Clayton Fetter
Secretary of Agriculture

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE

APPROVAL EXPIRES 4-30-85

FORM APPROVED, OMB NO. 0581-0055

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426)

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE

(Instructions on reverse)

1 NAME OF APPLICANT(S) WESTERN PLANT BREEDERS		2 TEMPORARY DESIGNATION PH 583-10	3 VARIETY NAME Fiesta
4 ADDRESS (Street and No. or R.F.D. No., City, State, and Zip Code) P.O. Box 1409 (8111 Timberline Drive) Bozeman, Mt. 59715		5 PHONE (Include area code) 406-587-1218	FOR OFFICIAL USE ONLY PVPO NUMBER 8700053
6 GENUS AND SPECIES NAME Hordeum Vulgare	7 FAMILY NAME (Botanical) Graminea		FILING DATE January 27, 1987 TIME 2:00 <input type="checkbox"/> A.M. <input checked="" type="checkbox"/> P.M.
8 KIND NAME Barley	9 DATE OF DETERMINATION May 1, 1985		FEES RECEIVED AMOUNT FOR FILING \$ 1800.00 DATE January 27, 1987 AMOUNT FOR CERTIFICATE \$ 200.00 DATE Dec. 17, 1990
10 IF THE APPLICANT NAMED IS NOT A "PERSON," GIVE FORM OF ORGANIZATION (Corporation, partnership, association, etc.) Corporation			12. DATE OF INCORPORATION 9/27/1985
11. IF INCORPORATED, GIVE STATE OF INCORPORATION Maryland			

13. NAME AND ADDRESS OF APPLICANT REPRESENTATIVE(S), IF ANY, TO SERVE IN THIS APPLICATION AND RECEIVE ALL PAPERS

Dale R. Clark

P.O. Box 1409 8111 TIMBERLINE DRIVE
Bozeman, Mt. 59715

PHONE (Include area code) 406-587-1218

14 CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED

- a. ☒ Exhibit A. Origin and Breeding History of the Variety (See Section 52 of the Plant Variety Protection Act.)
b. ☒ Exhibit B. Novelty Statement.
c. ☒ Exhibit C. Objective Description of Variety (Request form from Plant Variety Protection Office.)
d. ☐ Exhibit D. Additional Description of Variety.
e. ☒ Exhibit E. Statement of the Basis of Applicant's Ownership.

15. DOES THE APPLICANT(S) SPECIFY THAT SEED OF THIS VARIETY BE SOLD BY VARIETY NAME ONLY AS A CLASS OF CERTIFIED SEED? (See Section 83(a) of the Plant Variety Protection Act.) ☒ Yes (If "Yes," answer items 16 and 17 below) ☐ No

16. DOES THE APPLICANT(S) SPECIFY THAT THIS VARIETY BE LIMITED AS TO NUMBER OF GENERATIONS?

☐ Yes ☒ No

17. IF "YES" TO ITEM 16, WHICH CLASSES OF PRODUCTION BEYOND BREEDER SEED?

☐ Foundation ☐ Registered ☐ Certified

18. DID THE APPLICANT(S) PREVIOUSLY FILE FOR PROTECTION OF THE VARIETY IN THE U.S.?

☐ Yes (If "Yes," give date)

☒ No

19. HAS THE VARIETY BEEN RELEASED, OFFERED FOR SALE, OR MARKETED IN THE U.S. OR OTHER COUNTRIES?

☐ Yes (If "Yes," give names of countries and dates)

☒ No

20. The applicant(s) declare(s) that a viable sample of basic seeds of this variety will be furnished with the application and will be replenished upon request in accordance with such regulations as may be applicable.

The undersigned applicant(s) is (are) the owner(s) of this sexually reproduced novel plant variety, and believe(s) that the variety is distinct, uniform, and stable as required in Section 41, and is entitled to protection under the provisions of Section 42 of the Plant Variety Protection Act.

Applicant(s) is (are) informed that false representation herein can jeopardize protection and result in penalties.

SIGNATURE OF APPLICANT

Dale R. Clark

DATE

Jan 19, 1987

SIGNATURE OF APPLICANT

DATE

FIESTA

14a.

Fiesta (experimental # PH 583-10) was selected by Western Plant Breeders from their nursery near Phoenix, Arizona in May of 1982. Fiesta was selected as a single F_2 plant from the F_2 bulk of crosses between WPB's short strawed, male sterile barley populations and WPB's advanced lines. An F_3 plot was planted near Phoenix, Arizona and near Davis, California in the fall of 1982. Disease readings were taken on the Davis planting. Six plant selections were harvested from the Phoenix in May of 1983 and were grown near Bozeman, Montana in the summer of 1983. Uniform plots were harvested in bulk and the bulk F_5 seed was given the exp.# PH 583-10. The resulting F_5 bulk and successive F_6 and F_7 bulk were yield tested in the irrigated areas of Arizona and California in 1984, 1985 and 1986. 360 single plants were harvested from the F_6 bulk in August of 1984 at Bozeman, MT. These were planted as single 5' x 7' plots near Phoenix, Arizona in the fall of 1984. Seed selected from uniform plant plots were harvested in early May of 1985 and bulked to produce Breeders seed. The Breeders seed was used to plant 12 acres of seed production in May 1985 near Bozeman, Mt. The resulting production was harvested as Foundation seed and designated "Fiesta". Certified seed of Fiesta was first released to the grower in the fall of 1986.

Fiesta is a stable and uniform variety in agronomic appearance and performance across several generations and growing conditions. Agronomic data to support this stability are presented in tables Ia. thru VIb.

FIESTA

14b.

Fiesta is a long-awned, six-rowed, semidwarf spring barley that is mid-early to early in maturity. The plant growth type of Fiesta is perhaps most similar to either Gus or WestBred Gustoe. However, Fiesta flowers 5 to 10 days earlier than Gus and 7 to 13 days earlier than Gustoe. Fiesta also has a white aleurone where as Gus and WestBred Gustoe have blue aleurones. The earliness of Fiesta and aleurone color could be compared to CM-72. However Fiesta is 3 to 25 cm shorter than CM-72 and has stiffer straw. The above comparisons along with the complete objective description (14c.) show Fiesta to be a novel variety of spring barley.

14e.

Western Plant Breeders, Inc. is the employer of the breeder and rightfully therefore the owner of "Fiesta".

OBJECTIVE DESCRIPTION OF VARIETY
BARLEY (*HORDEUM VULGARE*)

INSTRUCTIONS: See Reverse.

NAME OF APPLICANT(S)

WESTERN PLANT BREEDERS, INC.

ADDRESS (Street and No. or R.F.D. No., City, State, and ZIP Code)

P.O.Box 1409 (8111 Timberline Drive)
Bozeman, Mt. 59715

FOR OFFICIAL USE ONLY

PVPO NUMBER

8700053

VARIETY NAME OR TEMPORARY
DESIGNATION

Fiesta

Place the appropriate number that describes the varietal character of this variety in the boxes below.

Place a zero in first box (i.e. or) when number is either 99 or less or 9 or less.

1. GROWTH HABIT:

 1 = SPRING 2 = FACULTATIVE WINTER 3 = WINTER Early Growth: 1 = PROSTRATE 2 = SEMIPROSTRATE
3 = ERECT

2. MATURITY (50% Flowering):

 1 = EARLY (California Mariout) 2 = MIDSEASON (Betzes) 3 = LATE (Frontier)

<input type="text" value="2"/>	No. of days Earlier than	<input type="text" value="2"/>	}	1 = BETZES	2 = CALIFORNIA MARIOUT	3 = CONQUEST	4 = DICKSON
<input type="text" value="10"/>	No. of days Later than	<input type="text" value="8"/>		5 = PIROLINE	6 = PRIMUS	7 = UNITAN	8. = WestBred Barcott

3. PLANT HEIGHT (From soil level to top of head):

 1 = SEMIDWARF 2 = SHORT (California Mariout) 3 = MEDIUM TALL (Betzes) 4 = TALL (Conquest)

<input type="text" value="1"/> <input type="text" value="2"/>	Cm. Shorter than	<input type="text" value="2"/>	}	1 = BETZES	2 = CALIFORNIA MARIOUT	3 = CONQUEST	4 = DICKSON
<input type="text" value="1"/> <input type="text" value="2"/>	Cm. Taller than	<input type="text" value="9"/>		5 = PIROLINE	6 = PRIMUS	7 = UNITAN	9 = POCO

4. STEM:

 Exertion (Flag to spike at maturity): 1 = 0 - 3 cm. 2 = 3 - 10 cm. Anthocyanin: 1 = ABSENT 2 = PRESENT
3 = 10 - 15 cm. NO. OF NODES (Originating from node above ground)

<input type="text" value="1"/>	Collar Shape:	1 = CLOSED 2 = V-SHAPED 3 = OPEN	<input type="text" value="2"/>	Shape of Neck:	1 = STRAIGHT 2 = SNAKY
		4 = MODIFIED CLOSED OR OPEN			3 = OTHER (Specify)

5. LEAF:

<input type="text" value="1"/>	Basal leaf sheath (seedling):	1 = GLABROUS 2 = PUBESCENT	<input type="text" value="2"/>	Position of flag leaf (at boot stage):	1 = DROOPING
					2 = UPRIGHT

<input type="text" value="2"/>	Waxiness:	1 = ABSENT (Glossy) 2 = SLIGHTLY WAXY
		3 = WAXY

<input type="text" value="2"/> <input type="text" value="8"/>	CM. LENGTH (First leaf below flag leaf)	<input type="text" value="2"/> <input type="text" value="8"/>	MM. WIDTH (First leaf below flag leaf)
---	---	---	--

<input type="text" value="1"/>	Anthocyanin in leaf sheath:	1 = ABSENT 2 = PRESENT
--------------------------------	-----------------------------	------------------------

6. HEAD:

<input type="text" value="2"/>	Type:	1 = TWO-ROWED 2 = SIX-ROWED	<input type="text" value="2"/>	Density:	1 = LAX 2 = ERECT (Not dense)
					3 = ERECT (Dense)

<input type="text" value="2"/>	Shape:	1 = TAPERING 2 = STRAP 3 = CLAVATE	<input type="text" value="1"/>	Waxiness:	1 = ABSENT (Glossy) 2 = SLIGHTLY WAXY
		4 = OTHER (Specify)			3 = WAXY

<input type="text" value="1"/>	Lateral Kernels Overlap:	1 = NONE 2 = AT TIP	<input type="text" value="3"/>	Rachis (Hair on edge):	1 = LACKING 2 = FEW 3 = COVERED
		3 = 1/4 - 1/2 OF HEAD			

7. GLUME:

<input type="text" value="3"/>	Length:	1 = 1/3 OF LEMMA 2 = 1/2 OF LEMMA	<input type="text" value="2"/>	Hairs:	1 = NONE 2 = SHORT 3 = LONG
		3 = MORE THAN 1/2 OF LEMMA			

<input type="text" value="4"/>	Hair covering:	1 = NONE 2 = RESTRICTED TO MIDDLE 3 = CONFINED TO BAND 4 = COMPLETELY COVERED
--------------------------------	----------------	---

<input type="text" value="3"/>	Awns:	1 = LESS THAN EQUAL TO LENGTH OF GLUMES 2 = EQUAL TO LENGTH OF GLUMES
		3 = MORE THAN EQUAL TO LENGTH OF GLUMES

<input type="text" value="3"/>	Awn Surface:	1 = SMOOTH 2 = SEMISMOOTH 3 = ROUGH
--------------------------------	--------------	-------------------------------------

8. LEMMA:

☐ 5 Awn: 1 = AWNLESS 2 = AWNLETS ON CENTRAL ROWS, AWNLESS ON LATERAL ROWS
 3 = SHORT ON CENTRAL ROWS, AWNLETS ON LATERAL ROWS 4 = SHORT (less than equal to length of spike)
 5 = LONG (longer than spike) 6 = HOODED

☐ 3 Awn Surface: 0 = AWNLESS 1 = SMOOTH 2 = SEMISMOOTH 3 = ROUGH

☐ 2 Teeth: 1 = ABSENT 2 = FEW 3 = NUMEROUS ☐ 1 Hair: 1 = ABSENT 2 = PRESENT

☐ 2 Shape of base: 1 = DEPRESSION 2 = SLIGHT CREASE 3 = TRANSVERSE CREASE ☐ 2 Rachilla Hairs: 1 = SHORT 2 = LONG

9. STIGMA:

☐ 2 Hairs: 1 = FEW 2 = MANY

10. SEED:

☐ 2 Type: 1 = NAKED 2 = COVERED ☐ 1 Hairs on Ventral Furrow: 1 = ABSENT 2 = PRESENT

☐ 4 Length: 1 = SHORT (8.0 mm.) 2 = SHORT TO MIDLONG (7.5 - 9.0 mm.) 3 = MIDLONG (8.5 - 9.5 mm.)
 4 = MIDLONG TO LONG (9.0 - 10.5 mm.) 5 = LONG (10.0 mm.)

☐ 3 Wrinkling of hull: 1 = NAKED 2 = SLIGHTLY WRINKLED 3 = SEMIWRINKLED 4 = WRINKLED

☐ 1 Aleurone Color: 1 = COLORLESS (White or Yellow) 2 = BLUE

☐ 0 ☐ 1 PERCENT ABORTIVE ☐ 5 ☐ 0 GMS. PER 1000 SEEDS

11. DISEASE: (0 = Not Tested, 1 = Susceptible, 2 = Resistant)

<input type="checkbox"/> 0 SEPTORIA	<input type="checkbox"/> 1 NET BLOTCH	<input type="checkbox"/> 1 SPOT BLOTCH	<input type="checkbox"/> 2 POWDERY MILDEW
<input type="checkbox"/> 1 LOOSE SMUT	<input type="checkbox"/> 0 BACTERIAL BLIGHT	<input type="checkbox"/> 0 COVERED SMUT	<input type="checkbox"/> 1 FALSE LOOSE SMUT
<input type="checkbox"/> 0 STEM RUST	<input type="checkbox"/> 1 LEAF RUST	<input type="checkbox"/> 0 SCAB	<input type="checkbox"/> 1 SCALD
<input type="checkbox"/> 0 AY	<input type="checkbox"/> 0 BSMV	<input type="checkbox"/> 2 BYDV	<input type="checkbox"/> 0 OTHER (Specify)

12. INSECT: (0 = Not tested, 1 = Susceptible 2 = Resistant)

<input type="checkbox"/> 0 GREEN BUG	<input type="checkbox"/> 0 ENGLISH GRAIN APHID	<input type="checkbox"/> 0 CHINCH BUG	<input type="checkbox"/> 0 ARMYWORM
<input type="checkbox"/> 0 GRASS HOPPERS	<input type="checkbox"/> 0 CERIAL LEAF BETTLE	<input type="checkbox"/> 0 OTHER (Specify)	
HESSIAN FLY RACES			
<input type="checkbox"/> 0 GP	<input type="checkbox"/> 0 A	<input type="checkbox"/> 0 B	<input type="checkbox"/> 0 C
<input type="checkbox"/> 0 D	<input type="checkbox"/> 0 E	<input type="checkbox"/> 0 F	<input type="checkbox"/> 0 G

13. CHEMICAL (0 = Not Tested, 1 = Susceptible, 2 = Resistant)

☐ 0 DDT ☐ 0 OTHER (Specify)

14. INDICATE WHICH VARIETY MOST CLOSELY RESEMBLES THAT SUBMITTED:

CHARACTER	NAME OF VARIETY	CHARACTER	NAME OF VARIETY
Plant tillering	Gus	Seed size	CM-72
Leaf size	Gustoe	Coleoptile elongation	Gustoe
Leaf color	Gus	Seedling pigmentation	Gustoe
Leaf carriage	Gus		

REFERENCES: The following publications may be used as a reference aid for the standardization of character descriptions and terms used in this form:

1. Wiebe, G. A., and D. A. Reid, 1961, Classification of Barley Varieties Grown in the United States and Canada in 1958, Technical Bulletin No. 1224, U.S. Dept. of Agriculture.
2. Reid, D. A., and G. A. Wiebe, 1968, Barley: Origin, Botany, Culture, Winter Hardiness, Genetics, Utilization, Pests, Agriculture Handbook No. 338, U.S. Dept. of Agriculture. pp. 61 - 84.
3. Malting Barley Improvement Association, Milwaukee, Wisconsin, 1971, Barley Variety Dictionary.

COLOR: Nickerson's or any recognized color fan may be used to determine color of the described variety.

Table Ia. Yield in pounds per acre of Fiesta and presently grown varieties
in Western Plant Breeders trials in the Southwestern United States.

<u>Location</u>	<u>Year</u>	<u>Fiesta</u>	WestBred		WestBred		WestBred		<u>Nk.BB-82-2</u>	<u>UC-476</u>
			<u>Barcott</u>	<u>Gus</u>	<u>501</u>	<u>Gustoe</u>	<u>Prato</u>			
Phoenix,AZ	1984	8300	7920	7260	8085	9240	7205	8360	--	
	1985	8269	8704	7453	7507	7398	5712	6494	--	
	1986	<u>6670</u>	<u>7482</u>	<u>6728</u>	<u>---</u>	<u>7656</u>	<u>---</u>	<u>6670</u>		<u>6148</u>
	3yr. Avg.	7746	8035	7147		8112		7175		
Davis, CA.	1984	4418	4002	5336	4118	6090	4988	5278	--	
	1985	6264	5394	4582	5278	5800	6206	7366	--	
	1986	<u>6795</u>	<u>5404</u>	<u>6848</u>	<u>---</u>	<u>6848</u>	<u>---</u>	<u>7597</u>		<u>5671</u>
	3yr. Avg.	5826	4933	5588		6246		6747		
Fresno,CA	1984	6318	6264	4914	5130	5346	6804	5886	--	
	1985	7772	7598	8004	--	7250	7424	8178		8410
	1986	<u>6554</u>	<u>5742</u>	<u>5336</u>	<u>---</u>	<u>5916</u>	<u>---</u>	<u>5800</u>		<u>5162</u>
	3yr. Avg.	6881	6535	6085		6171		6221		

FIESTA

Table Ib. Yield in pounds per acre of Fiesta and presently grown varieties in California public trials.

<u>Location</u>	<u>Year</u>	<u>Fiesta</u>	<u>WestBred</u>					
			<u>Gustoe</u>	<u>CM-72</u>	<u>Prato</u>	<u>UC-476</u>	<u>Nk-BB-82-2</u>	
Merced Co.	1985	4700bc	5450a	4460c	5280ab	5150abc	5300ab	
Kern Co.	1985	5600	5340	5450	6160	6470	6320	N.S
	1986	4860ab	5420a	4140bc	3800c	4670b	4810ab	
King Co.	1985	5620a	5750a	3670c	5400a	5550a	5820a	
	1986	4220b	5160a	3970b	4320b	4030b	5620a	
Westside								
Field Station								
	1985	6740c	7790ab	6490c	7300bc	8120a	7210bc	
	1986	4970abc	4140c	4310bc	5220a	5420a	5050ab	
U C Davis	1985	3830b	3940b	3530b	4890a	5080a	4740a	
	1986	3800c	4410b	3120d	4350b	4670b	5550a	
Sutter Co.	1985	6690ab	7080a	5430b	6320ab	6130b	5850b	
	1986	3180cd	4010b	2540d	3920b	3820bc	4890a	
Butte Co.	1985	8950a	9460a	5180c	8130a	8430a	8380a	
	1986	6020b	6430b	4160c	6180b	6130b	7250a	

FIESTA

Table Ic. Yield in pounds per acre of Fiesta and presently grown varieties in Arizona public trials.

<u>Location</u>	<u>Year</u>	<u>Fiesta</u>	WestBred	WestBred	<u>Columbia</u>	<u>Prato</u>	<u>Poco</u>
			<u>Gustoe</u>	<u>Barcott</u>			
Maricopa	1985	6318a	6902a	6682a	6655a	4746c	--
	1986	5215c	5838ab	6005a	5410bc	3828d	3675d
Yuma	1986	5693cd	6210b	7075a	5633cd	5628cd	--

FIESTA

Table Ila. Plant height in inches of Fiesta and presently grown varieties in Western Plant Breeders trials.

<u>Location</u>	<u>Year</u>	<u>WestBred</u>			<u>WestBred</u>			<u>Nk-BB-82-2</u>	<u>UC-476</u>
		<u>Fiesta</u>	<u>Barcott</u>	<u>Gus</u>	<u>Gustoe</u>	<u>Prato</u>			
Phoenix,AZ.	1984	34	32	36	33	37		39	--
	1986	28	26	32	29	--		36	34
Fresno,CA.	1986	32	33	35	32	--		38	38

FIESTA

8700053

Table IIb. Plant height in inches of Fiesta and presently grown varieties in public trials.

		WestBred		WestBred				Nk-BB	
<u>Location</u>	<u>Year</u>	<u>Fiesta</u>	<u>Gustoe</u>	<u>Barcott</u>	<u>CM-72</u>	<u>Prato</u>	<u>UC-476</u>	<u>82-2</u>	<u>Poco</u>
<u>California</u>									
Merced Co.	1985	35	32	--	36	38	38	37	--
Kern Co.	1986	31	31	28	32	31	34	35	--
King Co.	1985	30	33	--	36	40	39	42	--
	1986	34	34	35	33	37	36	41	--
WestSide									
Field Station									
	1985	25	25	--	30	26	27	27	--
	1986	33	33	34	37	38	37	39	--
U.C.Davis	1985	35	36	--	40	38	36	43	--
	1986	31	32	31	36	39	41	43	--
Sutter Co.	1985	32	36	--	39	39	41	42	--
	1986	33	35	35	38	40	40	42	--
Butte Co.	1985	31	34	--	41	39	39	42	--
	1986	30	30	35	40	38	38	38	--
<u>Arizona</u>									
Maricopa	1985	36	32	36	--	38	--	--	--
	1986	30	29	30	--	37	--	--	25

FIESTA

Table IIIa. Heading date of Fiesta and presently grown varieties in Western Plant Breeders trials.

<u>Location</u>	<u>Year</u>	<u>Fiesta</u>	WestBred	<u>Gus</u>	W.B. WestBred	<u>Prato</u>	Nk-BB	
			<u>Barcott</u>		<u>501</u> <u>Gustoe</u>		<u>82-2</u>	<u>UC-476</u>
Phoenix	1984	3/11	2/28	3/19	3/15 3/20	3/11	3/19	--
	1985	3/17	3/7	3/22	3/20 3/25	3/18	3/23	--
	1986	3/4	2/26	3/14	-- 3/16	--	3/13	3/11

FIESTA

Table IIIb. Heading date of Fiesta and presently grown varieties
in public trials.

			WestBred	WestBred				Nk-BB	
<u>Location</u>	<u>Year</u>	<u>Fiesta</u>	<u>Gustoe</u>	<u>Barcott</u>	<u>CM-72</u>	<u>Prato</u>	<u>UC-476</u>	<u>82-2</u>	<u>Poco</u>
<u>California</u>									
Merced Co.	1985	3/26	4/8	--	4/4	4/5	4/6	4/6	--
U.C.Davis	1985	4/3	4/12	--	3/30	4/3	4/4	4/5	--
	1986	3/23	4/5	3/18	3/25	3/27	3/29	3/31	--
<u>Arizona</u>									
Maricopa	1985	3/12	3/21	2/26	--	3/17	--	--	--
	1986	3/2	3/13	2/20	--	3/8	--	--	2/4

8700053

FIESTA

Table IV. Maturity (date) of Fiesta and presently grown varieties in public trials.

<u>Location</u>	<u>Year</u>	<u>Fiesta</u>	WestBred	WestBred	<u>CM-72</u>	<u>Prato</u>	<u>UC-476</u>	Nk-88	<u>Poco</u>
			<u>Gustoe</u>	<u>Barcott</u>				<u>82-2</u>	
U.C.Davis, California	1986	5/7	5/15	4/30	5/4	5/6	5/7	5/14	--
Maricopa	1986	4/16	4/22	4/3	--	4/17	--	--	4/1

FIESTA

Table Va. Lodging (percentage) of Fiesta and presently grown varieties
in Western Plant Breeders trials.

<u>Location</u>	<u>Year</u>	<u>Fiesta</u>	<u>WestBred</u>		<u>W.B.</u>		<u>WestBred</u>		<u>Nk-BB</u>	
			<u>Barcott</u>	<u>Gus</u>	<u>501</u>		<u>Gustoe</u>	<u>Prato</u>	<u>82-2</u>	<u>UC-476</u>
Phoenix, AZ.	1984	0	0	2	0		5	45	0	--
	1985	0	0	40	20		40	75	20	--
	1986	10	0	65	--		10	--	0	35
Fresno, CA.	1984	10	0	100	100		100	70	0	--
	1986	0	0	5	--		10	--	0	0
Davis, CA.	1985	25	0	75	0		0	50	0	--
	1986	5	0	10	--		10	--	20	50

8700053

FIESTA

Table Vb. Lodging (percentage) of Fiesta and presently grown varieties
in California public trials.

<u>Location</u>	<u>Year</u>	<u>Fiesta</u>	<u>WestBred</u>		<u>CM-72</u>	<u>Prato</u>	<u>UC-476</u>	<u>Nk-BB</u> <u>82-2</u>
			<u>Gustoe</u>	<u>Barcott</u>				
Merced Co.	1985	2	0	--	88	10	10	0
King Co.	1985	0	0	--	88	50	10	0
	1986							
WestSide Field Station	1985	3	5	--	10	3	3	3
	1986							
U.C.Davis	1985	0	0	--	88	30	10	0
	1986							
Sutter Co.	1985	3	0	--	65	5	10	0
	1986							
Butte Co.	1985	0	0	--	88	3	3	0

FIESTA

Table VIa. Test weight in pounds per bushel of Fiesta and presently grown varieties in Western Plant Breeders trials.

<u>Location</u>	<u>Year</u>	<u>Fiesta</u>	<u>WestBred</u>		<u>W.B. WestBred</u>		<u>Nk-BB</u>		<u>UC-476</u>
			<u>Barcott</u>	<u>Gus</u>	<u>501</u>	<u>Gustoe</u>	<u>Prato</u>	<u>82-2</u>	
Phoenix, AZ.	1985	54	50	51	53	50	49	47	--
	1986	54	53	54	--	56	--	53	52
Fresno, CA.	1984	52	47	46	47	47	51	48	--
	1985	53	47	53	--	53	51	50	53
	1986	51	49	48	--	50	--	49	53
Davis, CA.	1984	53	45	51	50	51	49	48	--
	1985	51	49	47	49	53	52	48	--
	1986	53	46	48	--	50	--	50	51

FIESTA

Table VIb. Test weight in pounds per bushel of Fiesta and presently grown varieties in California public trials.

<u>Location</u>	<u>Year</u>	<u>Fiesta</u>	<u>WestBred</u>					<u>Nk-BB-82-2</u>
			<u>Gustoe</u>	<u>CM-72</u>	<u>Prato</u>	<u>UC-476</u>		
Merced Co.	1985	53	52	48	51	52	50	
Kern Co.	1985	54	53	51	53	52	52	
	1986	57	58	55	55	55	55	
King Co.	1985	57	56	54	55	56	54	
	1986	55	53	52	52	54	53	
WestSide								
Field Station								
	1985	57	56	55	55	55	53	
	1986	54	55	53	53	54	52	
U.C.Davis	1985	49	49	45	49	50	49	
	1986	52	53	51	49	51	50	
Sutter Co.	1985	54	54	53	52	54	49	
	1986	54	51	53	50	51	49	
Butte Co.	1985	55	55	53	53	53	52	
	1986	55	54	53	53	54	52	